

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Wu et al.
Application Serial No.: 10/821,270
Filed: April 8, 2004
For: Whole Chip ESD Protection
Patent No.: Unassigned
Issue Date: Unassigned

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

**CERTIFICATE UNDER 37 C.F.R. §3.73(b)
ESTABLISHING RIGHT OF ASSIGNEE TO TAKE ACTION**

1. The assignee of the entire right, title and interest hereby seeks to take action in the PTO in this matter.

IDENTIFICATION OF ASSIGNEE

2. The assignee of this matter is:

TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY
121 Park Ave 3
Science-Based Industrial Park
Hsin-Chu, Taiwan R.O.C.

PERSON AUTHORIZED TO SIGN

3. Daniel R. McClure
Attorney for Assignee

4. A chain of title from the inventor(s) to the current assignee is shown below:

a. From: Yi-Hsu Wu, Jian-Hsing Lee, Shui-Hung Chen
To: Taiwan Semiconductor Manufacturing Company
Recorded in PTO: Reel: 013155 Frame: 0802

DECLARATIONS

5. I, the undersigned, have reviewed all the documents in the chain of title of the

☒ application
☐ patent

matter identified above and, to the best of my knowledge and belief, title is in the assignee identified above.

6. I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

7. I, the person signing below, aver that I am empowered to sign this statement on behalf of the assignee.



Daniel R. McClure, Reg. No. 38,962

Tel. No. 770-933-9500
Customer No.: 24504

**THOMAS, KAYDEN, HORSTEMEYER
& RISLEY, L.L.P.**

100 Galleria Parkway, Suite 1750
Atlanta, Georgia 30339-5948

Docket No. 252016-1920



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application:
Application No.:
Filed:
Title:
Commissioner for patents
Washington, D.C. 20231

POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST
(REVOCATION OF PRIOR POWERS)

As assignee of record of each of the patent applications listed in the table of attachment A,

REVOCATION OF PRIOR POWERS OF ATTORNEY

all powers of attorney previously given in each of the listed patent applications are hereby revoked, and

NEW POWER OF ATTORNEY

the following attorneys/agents are hereby appointed to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: I hereby appoint all attorneys of Thomas, Kayden, Horstemeyer & Risley, LLP, who are listed under the USPTO Customer Number shown below as the attorneys to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith, recognizing that the specific attorneys listed under that Customer Number may be changed from time to time at the sole discretion of Thomas, Kayden, Horstemeyer & Risley, LLP, and request that all correspondence about the application be addressed to the address filed under the same USPTO Customer Number.

24504

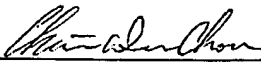
Patent Trademark Office

Please direct all future correspondence and telephone calls to:

Daniel R. McClure, Reg. No. 38,962
THOMAS, KAYDEN, HORSTEMEYER & RISLEY, L.L.P.
100 Galleria Parkway, Suite 1750
Atlanta, Georgia 30339
770-933-9500

ASSIGNEE OF ENTIRE INTEREST
TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.
8, Li-Hsin Rd. 6
Hsinchu Science Park
Hsinchu, Taiwan 300-77, R.O.C.

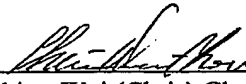
Date: 9/9/04


Chien-Wei (Chris) Chou
Director - Intellectual Property Division

ASSIGNEE CERTIFICATION

The certification under 37 C.F.R. §3.73(b) establishing the right of assignee to take action is attached hereto along with documentation evidencing same. Further, in my official position with Taiwan Semiconductor Manufacturing Company, Ltd., I am authorized to sign documents and otherwise act on its behalf in connection with the management and handling of patent applications and other intellectual property matters.

Date: 9/9/04



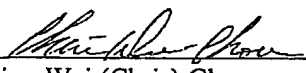
Chien-Wei (Chris) Chou
Director - Intellectual Property Division



Attachment A

No.	Serial No	Application Title	Filing Date	Assignment (Reel/Frame)
1.	10/310,486	A Method of Process Simplification and Eliminating Topography Concerns for the Creation of Advanced IT-RAM Devices	12/05/02	013556/0586
2.	10/861,149	A Novel Device Structure Having Enhanced Surface Adhesion and Failure Mode Analysis	06/04/04	
3.	10/861,148	Self-Aligned Electrode to Eliminate Native Oxide Effect for Metal Insulator Semiconductor (MIS) Capacitor	06/04/04	
4.	10/861,132	Method and System for Merging Wafer Test Results	06/04/04	
5.	10/017,955	Localized Slots for Stress Relieve in Copper	12/14/01	012386/0945
6.	10/845,887	Localized Slots for Stress Relieve in Copper	05/14/04	Recorded 012386/0945 at the parent application USP 10/017,955
7.	10/602,337	Redundancy Structure in Self-Aligned Contact Process	06/24/03	Recorded /_____ at the parent application USP 6,597,055
8.	10/655,689	SBGA Design for Low-K Integrated Circuits (IC)	09/05/03	014471/0048
9.	10/462,314	Shallow Trench Isolation Structure with Low Sidewall Capacitance for High Speed Integrated Circuits	06/13/03	014194/0150
10.	10/655,662	Method to Make Minimal Spacing Between Floating Gates in Split Gate Flash	09/05/03	014470/0854
11.	10/042,074	Grid Metal Design for Large Density CMOS Image Sensor	01/08/02	012494/0258

Date: 9/9/04


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12.	10/325,951	Method for Forming High Purity Silicon Oxide Field Oxide Isolation Region	06/04/99	010021/0093
13.	10/462,267	Gate Stack for High Performance Sub-Micron CMOS Devices	06/16/03	Recorded 012017/0126 at the parent application USP 6,596,599
14.	10/323,983	A Structure for Split Flash Memory Cells Containing a Programming Injector and a Method for Fabricating the Structure	12/19/02	013618/0294
15.	10/189,910	Stripe Board Dummy Metal for Reducing Coupling Capacitance	07/05/02	013086/0834
16.	10/686,794	Flash EEPROM with Function Bit by Bit Erasing	10/16/03	Recorded 012482/0478 at the parent application USP 6,638,821
17.	10/315,645	Method for Forming a Planarized Bond Pad Structure	12/10/02	013576/0082
18.	10/178,384	Structure and Fabricating Method to Make a Cell with Multi-Self-Alignment in Split Gate Flash	06/24/02	013058/0398
19.	10/821,270	Whole Chip ESD Protection	04/08/04	Recorded 013155/0802 at the parent application USP 6,730,968
20.	10/268,585	New Structures of Vertical Resistors and FETs as Controlled by Electrical Field Penetration and a Band-Gap Voltage Reference Using Vertical FETs Operating in Accumulation Through the Field Penetration Effect	10/10/02	013385/0110

Date:

9/9/04


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